

Title (en)

A SELF REPAIRING CONCRETE CONTAINING MICROCAPSULES OF POLYUREA RESIN AND PRODUCING METHOD THEREOF

Title (de)

SELBSTREPARIERENDER BETON MIT POLYHARNSTOFFHARZMIKROKAPSELN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

BÉTON AUTORÉPARABLE EMPRISONNANT DES MICROCAPSULES DE MACROMOLÉCULES RÉSINE DE CARBAMIDE ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2239241 A4 20110803 (EN)

Application

EP 08874351 A 20081024

Priority

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- CN 200810067313 A 20080520

Abstract (en)

[origin: EP2239241A1] A self-repairing concrete includes carbamide resin polymer micro-capsules, in which the carbamide resin polymer micro-capsules are mixed for a fixed function of micro-cracks. The quality mixture ratio is: concrete/ micro capsules/ water = 100:1-15:15-50. The manufacturing method is weighing a full amount of water in a container, adding carbamide resin polymer micro-capsules, stirring, until fully dispersed microcapsules; pouring the water into the mixing container, adding the corresponding quality of cement; stirring; adding sand and gravel filling materials, conducting worksite watering, 1/3 volume for each time, vibrating ,and air exhausting; until the slurry filling mold.

IPC 8 full level

C04B 28/00 (2006.01)

CPC (source: EP US)

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Citation (search report)

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- [IY] WO 2006018130 A1 20060223 - BASF AG [DE], et al
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Designated contracting state (EPC)

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